Case 1:15-cv-04804-WHP Document 135-20 Filed 03/09/18 Page 2 of 72

From:

Debbie Feuerstein <debbie@intellitecusa.com>

Sent:

Wednesday, March 25, 2015 1:56 PM

To:

Jeffrey Mishan < Jeffrey Mishan@emsonusa.com>

Cc:

Mindy Farber <Mindy.Farber@emsonusa.com>; Feena SanPedro

<Feena.SanPedro@emsonusa.com>

Subject:

BELL&HOWELL ULTRASONIC PEST REPELLER TEST REPORT REVISED

Attach:

1 Cover Page pdf; BELL&HOWELL ULTRASONIC PEST REPELLER TEST

REPORT.PDF

Dear Jeffrey;

Attached #1 is revised report cover page.

Attached #2 is revised report in pdf format.



Warm regards,
Debbie Feuerstein
INTELLITEC INT'L INC.
T: 718-8840038 | C: 646-2208585
Intelligence thru Technology

BELL + HOWELL ULTRASONIC PEST REPELLER EFFICACY TEST REPORT

- SGS EFFICACY TEST REPORT MICE/RAT
- SGS TEST RESULT EXPLANATION MICE/RAT
- SGS EFFICACY TEST REPORT SPIDERS/ANTS/ROACHES
- SGS TEST RESULT EXPLANATION SPIDERS/ANTS/ROACHES
- INTERTEK EFFICIACY TEST REPORT MICE/RAT
- INTERTEK RESULT EXPLANATION MICE/RAT
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BELL + HOWELL ULTRASONIC PEST REPELLER

EFFICACY TEST REPORT





SGS-CSTC Shenzhen Branch 3/F-7/F, No.1, 1st Street, Xiameilin, Futian District, Shenzhen, China P.C:518049 Tel:86 755 25328888 / 83114358 Fax:86 755 83139706 / 83139732

WITNESS TEST REPORT

Report No.: SZXWT00585081

Date: 15-Dec-2011

From:	Mei Lv	E-mail:	Mei.Lv@sgs.com	
	1		*	- 1

SGS File No.:	CNDGG50037334	Testing Device Overlook
Buyer :	VAN HAUSER 230, FIFTH AVENUE, NEW YORK, NY 10001, USA	
Style Number:	NII	
Product description:	BELL + HOWELL ULTRASONIC PEST REPELLER	
Service Style :	TESTING WITNESS	
Service Date :	From 01-DEC-201 to 11-DEC-201	
Testing Location:	DONGGUAN, CHINA	

Testing Criteria

Testing sample provided by	By Supplier(see protocol)
Client instruction/specification	Yes(see protocol)
SGS WI number	N/A
Other	

Comments / Remarks: (Reason)

- -Found 1rat escaped and 2 rats died at the night of 02-Dec-2011(preliminary testing), added the new rats next day(on the first day of during testing).
- -Found water spilled into food dish in Chamber A&B on 02-Dec-2011, so Chamber B food weight added 49 g.
- -Four edges of all chambers were closed up by SGS inspector with special seals. The seal is unbreakable and chopped with SGS company stamp. Each day after counting mice/rat quantities and weighting water and food, SGS inspector replaced new seals.

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STUDY TITLE

THEICACY EVALUATION OF BELL + HOWELL OF TRASONIC PEST REPELLER AGAINST MICE/RATS

OBJECT

TESTING ULTRASONIC PEST REPELLER AGAINST RATS / MICE IN LABORATORY ENVIRONMENT. CONDUCTING OBSERVATIONS IN TOTAL 11 DAYS PERIOD, INCLUIDING 2 DAYS PRLIMINARY TEST, 7 DAYS DUIRING TEST AND 2 DAYS POST TEST IN RATS / MICE, THIS IS TO MEASURE THE EFFICACY OF HIGH-FREQUENCY SOUND AS A PEST MANAGEMENT TOOL. BOTH FREQUENCY AND SOUND PRESSURE (DB) ARE IMPORTANT PARAMETERS.

MATERIALS

FORMULATIONS	BELL + HOWELL ULTRASONIC PEST REPELI ER
TEST ARTHROPODS	ADULT & HEALTHY RATS AND MICE
APPLICATION DEVICES	BELL + HOWELL ULTRASONIC PEST REPELLER
TESTING CHAMBER	SFE BELOW DIAGRAM

METHODS

Summary

7 feet long plastic tunnel is made to connect two chambers on each side. Each chamber is 4 feet (L) \times 4 feet (W) \times 1.5 feet (FI). Ultrasonic Pest Repeller is placed at Chamber A, Chamber B has no ultrasonic pest repeller. Both sides have equal amount of food and water. Rats and Mice will be recorded at 24 hour intervals for 11 days, including 7 days (or 168 hours) + 2 days Preliminary Testing and 2 days Post Testing. The number of rats / mice will be recorded in each chamber. Any rats / mice are found in Chamber B (no ultrasonic pest repeller) will be counted as repelled. Any rats / mice remain in Chamber A (with ultrasonic pest repeller) will be counted as not repelled.

To determine the efficacy of the Bell + Howell Ultrasonic Pest Repeller for repelling rats and mice. This device is tested over a 24 hours interval and 7 days (or 168 hours) period in a laboratory environment. The test was preceded by a two-day preliminary test to ensure that the test apparatus and the selected food functioned properly.

Test sample

The test sample will be stored in a locked cabinet at ambient temperature and humidity until use in the study.

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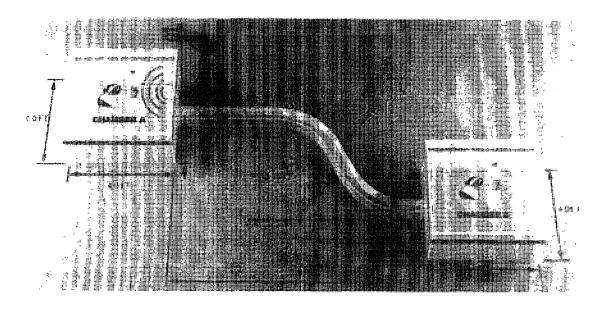
Preparation and Handling of Rats/Mice

10 Mixed Sex Adult Rats and 10 Mixed Sex Adult Mice will be used for both the control test and active test. As rats are larger and far more aggressive than mice, they can, and often do, kill mice. This is known as muricide. Muricide is a form of predatory behavior by which rats hunt, kill and eat mice. Therefore the testing of rats and mice must be conducted separately in different times.



Construction of Test Chambers

The test will be conducted in two plastic chambers; each chamber is 4 feet (L) \times 4 feet (W) \times 1.5 feet (H). In between, there is a 7 feet long plastic tunnel to connect two chambers on each side, the rats and mice will each be given 7 days (168 hours) to move freely around Chamber A and Chamber B and inside the tunnel.



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Food and Water Consumption

Rats eat a wide variety of food. They mostly prefer grain, livestock feed, and meat. The rat's primary consumption comes in the form of water. Rats need 1/2 to 1 ounce of water daily. An equal amount of food and water will be placed in each chamber, including a mixture of grain and meat. Food and water will be refilled and recorded daily.

Mice prefer pellet- and seed-based food. Mice generally eat food common to the rodent family, (rats, hamsters, gerbils, etc.), which typically includes pellet- and seed-based food. An equal amount of food and water will be placed in each chamber. The quantity of food and water will be refilled and recorded daily.

Data related to food and water consumption will be recorded in each chamber on a 24-hour interval throughout a 7-day (or 168 hours) period. The data will be used to identify changes in the eating behavior of mice and rats due to the impact of the Ultrasonic Pest Repeller.

Fecal pellet counts & Urine spots

Record and tract fecal pellets and urine spots on a 24 hours interval and 2 days Preliminary Testing, 7 days (or 168 hours) During Testing and 2 days Post Testing period in each chamber. This data will aid in understanding additional behavioral changes resulting from the Ultrasonic Pest Repeller.

Preliminary Testing

Rats/Mice activity will be documented before and after device installation. To observe general activity, a Preliminary Test will be conducted before the actual test to ensure the test apparatus and the selected food functioned properly. The Ultrasonic Pest Repeller will be turned "off" during preliminary testing. The release of rats and mice in Chamber A and Chamber B will be proportionate, with 50% of rats and mice distributed in each chamber.

The Preliminary Test will consist of 10 mixed sex adult rats and 10 mixed sex adult mice. The rats and mice will be each allotted 2 days (48 hours) to move freely around chamber A, Chamber B and inside the tunnel prior to the introduction of the Ultrasonic Pest Repeller.

Observation of Repellency (During Testing)

Release 50% of rats in Chamber A, and another 50% of mice in Chamber B. Turn On Ultrasonic Pest Repeller. Rats and mice will be recorded at 24 hour intervals for 7 days (or 168 hours). Any rats and mice that stay in the Chamber B (without ultrasonic pest repeller) will be counted as repelled. Any rats and mice stay inside Chamber A (with ultrasonic pest repeller) will be counted as not repelled.

The actual control and non-control test will consist of 10 mixed sex adult rats and 10 mixed sex adult mice. The rats and mice will each be given 7 days (168 hours) to move freely around Chamber A and Chamber B and inside the tunnel.

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Post Testing

To observe general activity, a post test will be conducted to ensure the test apparatus and the selected food functioned properly. Ultrasonic Pest Repeller will be turned OFF during post test. Release 50% of rats and mice in Chamber A, release another 50% of rats and mice in Chamber B.

The Post Test consists of 10 mixed sex adult rats and 10 mixed sex adult mice. The rats and mice are each given 2 days (48 hours) to move freely around chamber A, Chamber B and inside the tunnel.

No change is made in the rats / mice population. Rats and mice quantity should remain the same.

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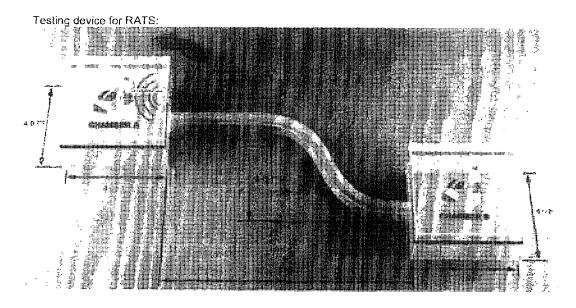
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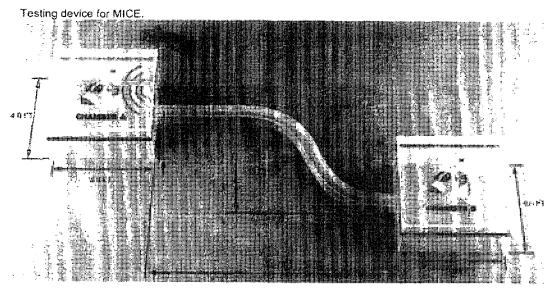
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Testing device dimension (refer to below following figures)





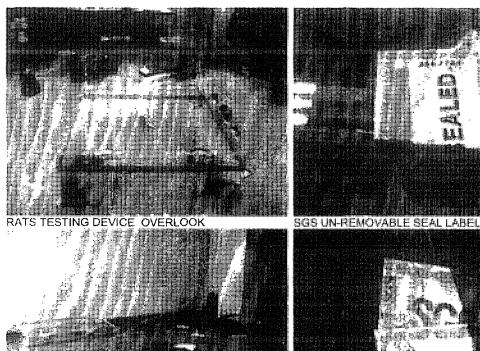
Note: Distance between the two devices was about 20 m

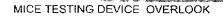
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SGS UN-REMOVABLE SEAL LABEL

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Test Result Data Measurement - RATS

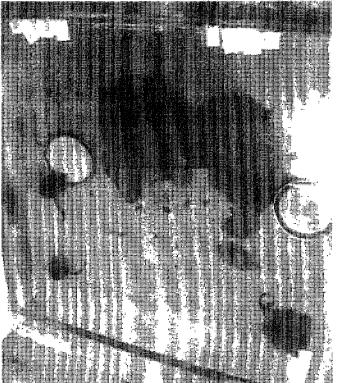
	AND THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED I	PRELIMINA	RY TESTING		***************************************	DUR	DURING TESTING	.iNG			POST TESTING	ESTING
PATC		SWITCH	H OFF		mainten ur mainten de des	EO)	SWITCH ON	7			SWITC	SWITCH OFF
<u>.</u>		-(8Hrs.	-2#RS-	2.111.5	18Hrs	72Brs	96lbs	120Hrs	144Brs	1681115	+24Hr3	. #48Hrs
		(-2, Dev)	(~eq. 1-)	(1 Pay)	(2 Day)	(3 Day)	(d Day)	(5 Day)	(6 Day)	(7 Dav)	(vid 14)	(45 jiay)
Observe Date	ate	1-965 13	2 Degral	3-Dec-11	1-Dec-11	5-Dec-11	6-herr-11	7-bec-11	8-Nor-11	9-pec-11	10 Dec-11	11-Dec-11
Observe Time	me	10:30 AB		10:30 AM	10:30 AM	10:30 AM	10;30 AH	10:30 4M	10:30 AK	10:30 4%	40c80 AM	10:30 AM
A The state of the	quantity		Contract of the contract of th	0		0	0	ŋ	Ü	0	102	
Chamber A	consumed food(g)	[1 .			ţ	273	-	10	=	6	151	173
(W/Pest Repeller)	consumed water(ml)	396	A	62	19	25	91.	34	F	41	214	888
emanagem is many a as	quantity	10000000000000000000000000000000000000		16	91	10	91	10	10	10	1000年	£
Chamber B	consumed food(g)			142	37	202	166	221	156	203	154	87
	consumed water(ml)	consumed 512 water(ml)		387	360	266	245	343	344	301	. 275	06

1. Found that escaped and 2 rats died at the night of 02-Dec-2011(preliminary testing), added the new rats next day(on the first day of during testing). 2. Found water spilled into food dish in Chamber A&B on 02-Dec-2011, and Chamber B food weight added 49 g.

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Rats testing status

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Test Result Data Measurement -- MICE

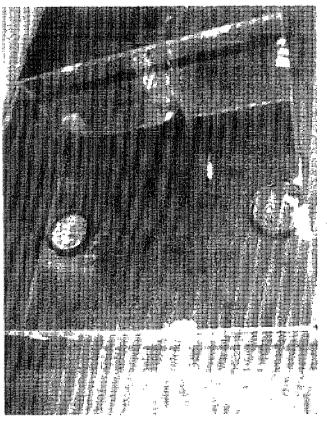
11-Dec-11 10:30 AM +48Hrs (+2 Day) POST TESTING <u>.</u> (8 SWITCH OFF G) 3 27 εű 8 10-Dec-11 +24Hrs 10:30 AM (+1 Day) 23 38 · · ڠؚ É 10:30 AM (7 Day) 9-Dec-11 168Hrs <u>;</u> 23 2 4 7 4 10:30 AM 8-Dec-11 144Hrs (6 Day) 42 24 36 ŝ Ç) 7-Dec-11 (5 Day) 10:30 AM 120Hrs 10 820 4 ₫. DURING TESTING **SWITCH ON** (4 Day) 6-Dec-11 96Hrs 10:30 AM Ξ 35 7 7 Ü (3 Day) 10:30 AM 5-Dec-11 72Hrs Ċ, 25 32 8 బ 10:30 AM (2 Day) 4-Dec-11 48Hrs 7 33 2 ÇD. 3 10:30 AM (1 Day) 3-Dec-11 24Hrs **Ç** 0 23 27 7 100 mg Charles (Constant) PRELIMINARY TESTING -24Hrs 10:30 AN · ... : # (ved 1-) 32 W. 2-Dec-11 神田でいるる いん San Maria SWITCH OFF W.10.30 AM 49 (2 day) 松木…… 優になる 4333 1-Dec-11 48Hrs ->,10g 82 46 consumed consumed consumed consumed water(mt) quarility (6)pooj (b)pcoj water(ml) Observe Time Observe Date (WiPest Repeller) Chamber A Chamber B

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Mice testing status

Mice testing status

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RATS/MICE FECAL PELLET & URINE SPOTS RECORD REPORT

STAGE SWITCH O		DATE	SUBJECT	CHAMBER : A (W/ PEST PELLER)	CHAMBER ; B
	,		MICE	Little	More .
PRELIMINARY	SWITCH	1-Dec-11	RATS	Equal	Equal
TESTING	OFF	2-Dec-11	MICE	More	Little
		2-260-11	RATS	Equal	Egual
		3-Dec-11	MICE	Little	Моге
			RATS	Little	More
		4-Dec-11	MICE	Very little	Моте
		4-060-11	RATS	Very little	More
		5-Dec-11	MICE	Very little	More
DURING	SWITCH ON		RATS	Little	More
TESTING		6-Dec-11	MICE	Very little	Моге
			RATS	Very little	More
		7-Dec-11	MICE	Very little	More
			RATS	Very little	More
		8-Dec-11	MICE	Very little	More
			RATS	Very little	More
		9-Dec-11	MICE	Very little	More
			RATS	Very little	More
		10-Dec-11	MICE	Equal	Equal
POST	switch		RATS	Equal	Equal
TESTING	OFF	11-Dec 11	MICE	Egual	Equal
			RATS	Egual	Equal

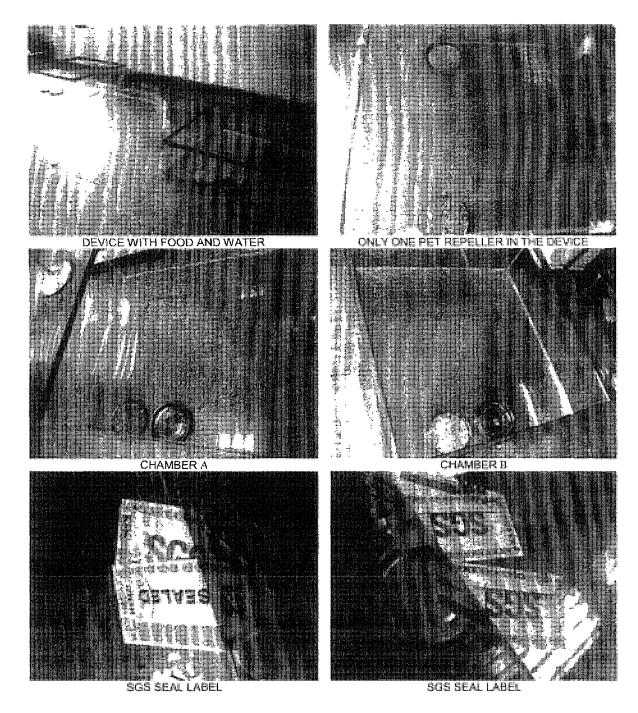
Note:

Fecal pellet and urine spots are observed and witnessed by eyes. Due to tiny and irregular sizes, rat and mice's fecal pellet & urine spots are not easy to count, therefore quantity difference is described by three levels – little, very little and more.

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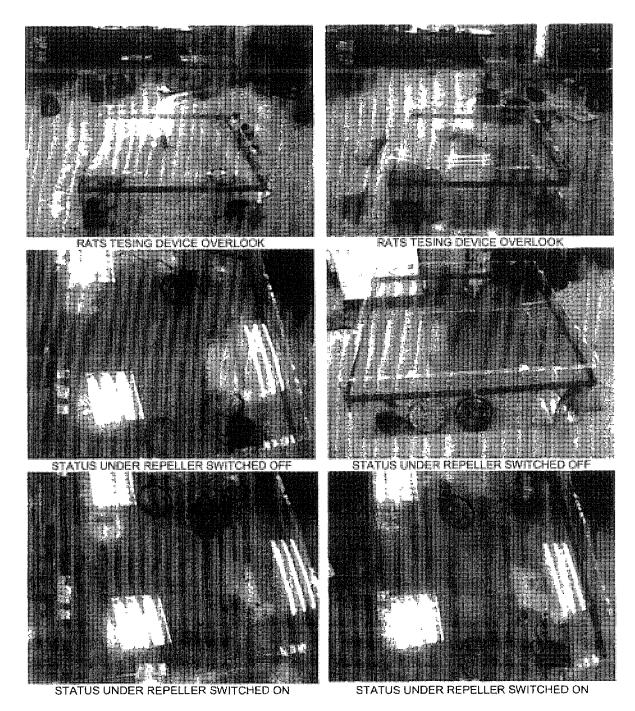


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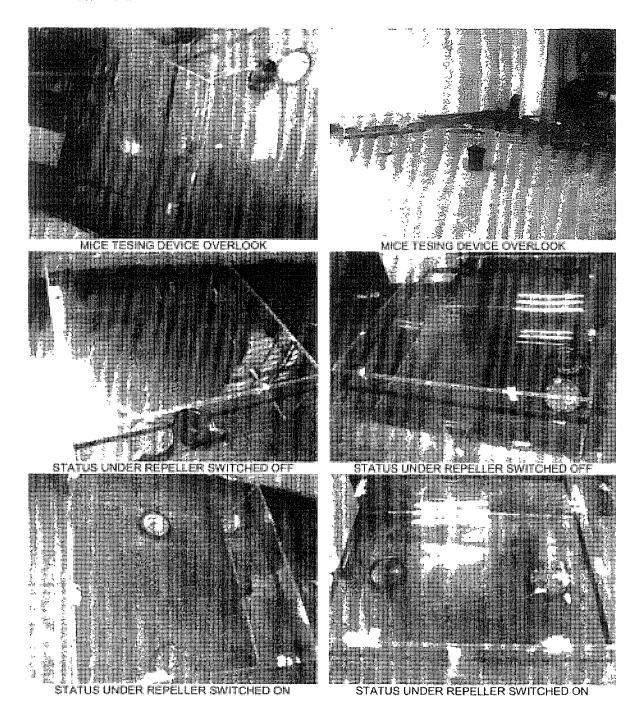


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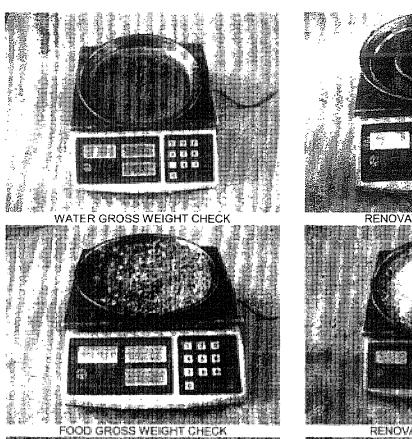
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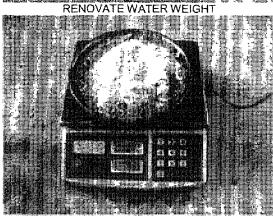
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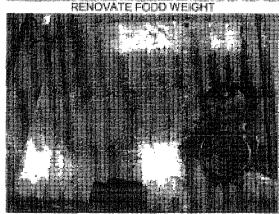
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SPRINKLE FOOD

FOCO & WATER IN CHAMBER

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RATS/MICE TEST REPORT RESULT ANALYSIS

December 19, 2011

Construction of Test Chamber:

- The test was conducted in two plastic chambers. Each chamber is 4' x 4' x 1.5'.
- Pest Repeller was placed in chamber A.
- In between, there is a 7 feet long plastic tunnel. The tunnel is "curved" and two chambers are designed in HI-LO level. The curved and Hi-Lo tunnel design is to further ensure ultrasonic sound wave will not enter from chamber A into chamber B since sound wave is very directional.
- All edges are sealed securely with SGS unbreakable labels. Only SGS inspector could open the chambers to count rats/mice quantities, weight food and water and replace new seals on a daily basis.
- Total 10 mixed rats and 10 mixed mice were used, and tested separately in different chambers.
- Released 50% of rats/mice in chamber A, and another 50% of rats/mice in Chamber B at the beginning of the test.
- There were 3 testing stages;
 - Preliminary Testing: 2 days = 48 hours, pest repeller was OFF
 - o During Testing: 7 days = 168 hours, pest repeller was ON
 - o Post Testing: 2 days = 48 hours, pest repeller was OFF

Rats - Test Result Analysis (see page 8)

- From the 1st day to 7th day During Testing, 100% rats stayed away from pest repeller chamber through the entire time, pest repeller was on.
- Some rats stayed or returned to the pest repeller chamber during Preliminary and Post Testing, pest repeller was off.
- Water and food consumption was much LESS in the pest repeller chamber During Testing, pest repeller was on. The consumption became more EVEN in two chambers during Preliminary and Post Testing, pest repeller was off. To record water and food consumption result on a daily basis helps to understand rats' eating behavior under the influence of ultrasonic sound.

Mice - Test Result Analysis (see page 10)

- Average 90% ~ 100% mice stayed away from pest repeller chamber During Testing (pest repeller was on).
- Some mice stayed or returned to the pest repeller chamber during Preliminary and Post testing (pest repeller was off).
- Water and food consumption was much LESS in the pest repeller chamber During Testing, pest
 repeller was on. The consumption became more EVEN in two chambers during Preliminary and Post
 Testing, pest repeller was off. To record water and food consumption result on a daily basis helps to
 understand mice's eating behavior under the influence of ultrasonic sound.

Fecal Pellet and Urine Spots (see page 12)

- To trace and record rats and mice's fecal pellet ad urine spots on a daily basis is to further understand rats and mice's activities and behaviors under the influence of ultrasonic sound.
- When pest repeller was on During Testing; fecal pellet and urine spots appeared to be much LESS
 quantities in the pest repeller chamber.
- When pest repeller was off during Preliminary and Post Testing, fecal pellet and urine spots quantities appeared to be more EVEN in two chambers.



SGS-CSTC Shenzhen Branch
7/F, SGS Building No 4, Jianghao Industry Park, No. 430, Jihua Road,
Bantian Town, Longgang District, Shenzhen, China. P C 518129 Tel·86 755 25328888 / 88114358

WITNESS TEST REPORT

Report No.: SZXWT00603439

To :	INTELLITEC INTERNATIONAL INC.	Date:	23-MAR-2012
Att :	DEBBIE FEUERSTEIN		
From :	Mei Lv	E-mail:	Mei.Lv@sgs.com

SGS File No.:	CNDGG50041547	Testing Device Overlook
Buyer:	VAN HAUSER 230, FIFTH AVENUE, NEW YORK, NY 10001, USA	
Supplier :	INTELLITEC INTERNATIONAL INC.	
Manufacturer :	INTELLITEC INTERNATIONAL INC.	
Style Number:	Nil	
Product description:	BELL + HOWELL ULTRASONIC PEST REPELLER	
Service Style :	TESTING WITNESS	
Service Date :	From 10-MAR-2012 to 21-MAR-2012	
Testing Location:	DONGGUAN, CHINA	

Testing Criteria

Testing sample provided by	By Supplier(see protocol)
Client instruction/specification	Yes(see protocol)
SGS WI number	N/A
Other	

Comments / Remarks: (Reason)-

- Canceled bread and white granulated sugar (as food) for spiders on 12-Mar-2012, as spiders were not eating & drinking.
- Each spider chambers provided 10 recently dead roaches as food for spiders on a daily basis. Used soaked sponges to feed spiders water.
- Four edges of all chambers were sealed by SGS inspectors with un-removable seal labels and chopped with SGS stamp. Each day after counting spiders/ants/roaches quantities and weighting water inspector replaced new seals.

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STUDY TITLE

EFFICACY EVALUATION OF BELL + HOWELL ULTRASONIC PEST REPELLER AGAINST ANTS / SPIDERS / ROACHES

OBJECT

TESTING ULTRASONIC PEST REPELLER AGAINST ANTS / SPIDERS / ROACHES IN LABORATORY ENVIRONMENT. CONDUCTING OBSERVATIONS IN TOTAL 11 DAYS PERIOD, INCLUIDING 2 DAYS PRLIMINARY TEST, 7 DAYS DUIRING TEST AND 2 DAYS POST TEST. THIS IS TO MEASURE THE EFFICACY OF HIGH-FREQUENCY SOUND AS A PEST MANAGEMENT TOOL. BOTH FREQUENCY AND SOUND PRESSURE (db) ARE IMPORTANT PARAMETERS.

MATERIALS

FORMULATIONS BELL + HOWELL ULTRASONIC PEST

REPELLER

TEST ARTHROPODS HEALTHY ANTS, SPIDERS & ROACHES
APPLICATION DEVICES BELL + HOWELL ULTRASONIC PEST

BELL + HOWELL OLI KASONIC PES

REPELLER

TESTING CHAMBER SEE BELOW DIAGRAM

METHODS

Summary

8.5 feet long plastic tunnel is made to connect two chambers on each side. Each chamber is 4 feet (L) x 4 feet (W) x 1.5 feet (H). Ultrasonic Pest Repeller is placed at Chamber A, Chamber B has no ultrasonic pest repeller. Both sides have equal amount of food and water. Ants, Spiders and Roaches will be recorded at 24 hour intervals for total 11 days (or 264 hours). The number of ants / spiders / roaches will be recorded in each chamber. Any ants / spiders / roaches are found in Chamber B (no ultrasonic pest repeller) will be counted as repelled. Any ants / spiders / roaches remain in Chamber A (with ultrasonic pest repeller) will be counted as not repelled.

To determine the efficacy of the Bell + Howell Ultrasonic Pest Repeller for repelling ants, spiders and roaches. This device is tested over a 24 hours interval and total 11 days (or 264 hours) period in a laboratory environment. The test was preceded by a two-day preliminary test to ensure that the test apparatus and the selected food functioned properly.

Test sample

The test sample will be stored in a locked cabinet at ambient temperature and humidity until use in the study.

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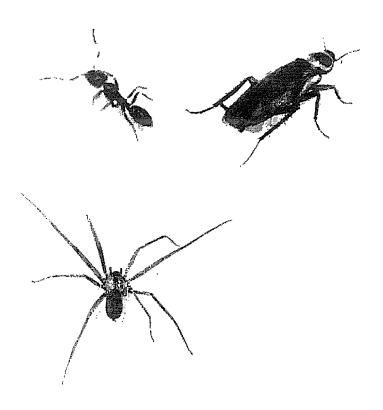
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Preparation and Handling of Ants / Spiders / Roaches

20 ants, 20 spiders and 20 roaches will be used for both the control test and active test. As spiders are larger and far more aggressive than ants and roaches, they can, and often do, kill smaller pests like ants and roaches. Therefore the testing of spiders and ants/roaches must be conducted separately in different times.

Most of the spiders that have been studied so far seem to have similar dietary and digestive patterns The first thing that should be stressed is that spiders will only eat living prey (or perhaps very recently killed ones), and the majority of spiders feed on insects, therefore recently dead roaches were used as food for spiders. In order to prevent spiders eat ants and roaches, the testing will be conducted separately, spiders in one testing chamber, ants and roaches together at the other chamber.



Construction of Test Chambers

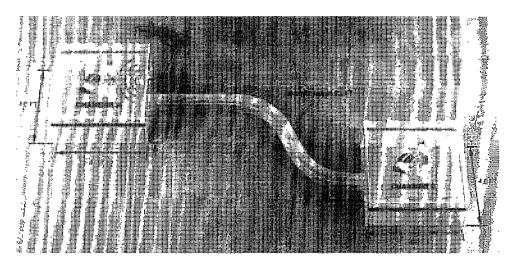
The test will be conducted in two plastic chambers; each chamber is 4 feet (L) \times 4 feet (W) \times 1.5 feet (H). In between, there is a 8.5 feet long plastic tunnel to connect two chambers on each side, ants, spiders and roaches will each be given 11 days (264 hours) to move freely around Chamber A and Chamber B and inside the tunnel.

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Food and Water Consumption

Data related to food and water consumption will be recorded in each chamber on a 24-hour interval throughout a 11-day (264 hours) period. The data will be used to identify changes in the eating behavior of ants, spiders and roaches due to the impact of the Ultrasonic Pest Repeller.

Fecal pellet counts

Record and trace fecal pellets of roaches on a 24 hours interval and 11 days (264 hours) period in each chamber. Neither fecal pellet nor urine spots for ants & spiders. This data will aid in understanding additional behavioral changes resulting from the Ultrasonic Pest Repeller.

Preliminary Testing

Ants / Spiders / Roaches activity will be documented before and after device installation. To observe general activity, a Preliminary Test will be conducted before the actual test to ensure the test apparatus and the selected food functioned properly. The Ultrasonic Pest Repeller will be turned "off" during preliminary testing. The release of Ants, Spiders and Roaches in Chamber A and Chamber B will be proportionate, with 50% of Ants, Spiders and Roaches distributed evenly in each chamber.

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The Preliminary Test will consist of 20 ants, 20 spiders and 20 roaches. The pests will be each allotted 2 days (48 hours) to move freely around chamber A, Chamber B and inside the 8.5 feet long tunnel prior to the introduction of the Ultrasonic Pest Repeller.

Observation of Repellency (During Testing)

Release 50% of ants, spiders and roaches in Chamber A, and another 50% of ants, spiders and roaches in Chamber B. Turn On Ultrasonic Pest Repeller. Ants, Spiders and Roaches will be recorded at 24 hour intervals for 7 days (or 168 hours). Any ants, spiders and roaches that stay in the Chamber B (without ultrasonic pest repeller) will be counted as repelled. Any ants, spiders and roaches stay inside Chamber A (with ultrasonic pest repeller) will be counted as not repelled.

The During Testing will consist of 20 ants, 20 spiders and 20 roaches. The ants, spiders and roaches will each be given 7 days (168 hours) to move freely around Chamber A and Chamber B and inside the 8.5 feet long tunnel when the Ultrasonic Pest Repeller is ON.

Post Testing

To observe general activity, a post test will be conducted to ensure the test apparatus and the selected food functioned properly. Ultrasonic Pest Repeller will be turned OFF during post test. Release 50% of ants, spiders and roaches in Chamber A, release another 50% of ants, spiders and roaches in Chamber B.

The Post Test will consist of 20 ants, 20 spiders and 20 roaches. The ants, spiders and roaches are each given 2 days (48 hours) to move freely around chamber A, Chamber B and inside the 8.5 feet long tunnel when the Ultrasonic Pest Repeller is OFF.

No change is made in the ants, spiders and roaches population; the quantity should remain the same.

DATA ANALYSIS

The number of ants, spiders and roaches repelled and not repelled will be analyzed to determine the percent repellency.

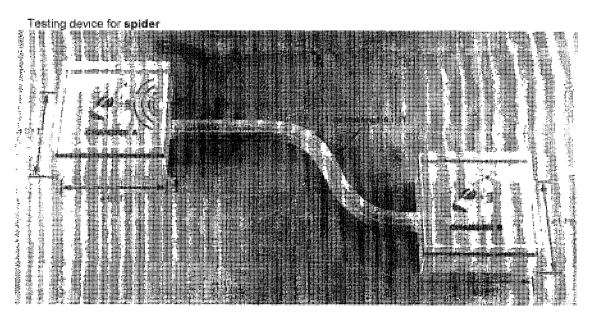
All data should be recorded for 2 days (48 hours) Preliminary Test, 7 days (168 hours) of During Test, and 2 days (48 hours) of Post Test.

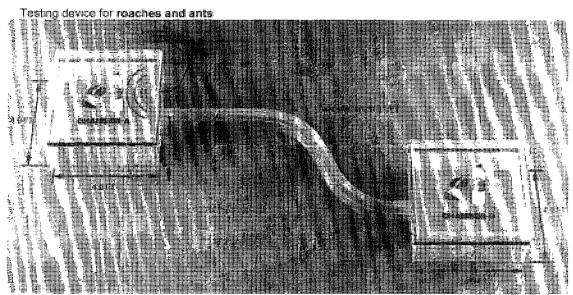
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Testing device dimension (refer to below following figures)



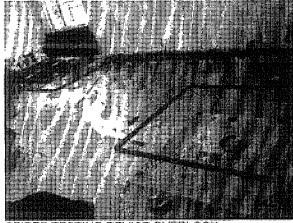


Note: Distance between the two devices was about 20 meters

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SPIDER TESTING DEVICE OVERLOOK

SGS UN-REMOVABLE SEAL LABEL



ROACHES AND ANTS DEVICE OVERLOOK

SGS UN-REMOVABLE SEAL LABEL



Test Result Data Measurement -Spider

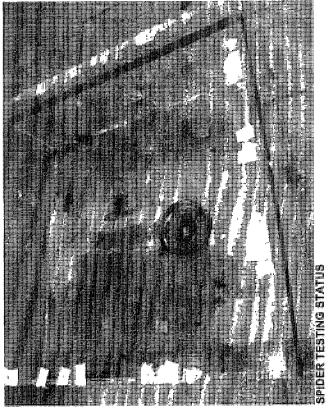
		PRELIMINARY	RY TESTING			DUR	DURING TESTING	ING			POST TESTING	ESTING
SPIDER	Ω	SWITCH	H OF			S	SWITCH ON	7			**************************************	ARGENTAL SWITCH OFFIT
j 1		48Hrs 1		24Hrs	48Hrs	72Hrs	96Hrs	120Hrs	144Hrs	168Hrs	+24Hrs	+48Hrs. Apr
		(-2-Day)	(L Day)	(1 Day)	(2 Day)	(3 Day)	(4 Day)	(5 Day)	(6 Day)	(7 Day)	(*1 Day)	(+2:··Day)
Observe Date	ate	11-488-12 13	12-Mar 12	13-Mar-12	14 Mar 12	15-Mar-12	16-Mar-12	17-Mar-12	18-Mar-12	19-Mar-12	20-Mar=12	
Observe Time		10:30 AM	MA, 05:30	10:30 AM	10:30 AM	10:30 AM	10:30 AM	10:30 AM	10:30 AM	10:30 AM	N. 130130 AM 10130 AM	15 -10 c30 AM
	quantity	Lower IQ	1. Second Interior TO	1	2	-	0	0	0	0	Santa S.	Transit Inch
Chamber A	consumed food(unit)			0	1	0	0	0	0	0	An age of granders in the second statement of the seco	The state of the s
	consumed water(ml)	39 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	AL, SIL	18	10	13	8	6	က	8	Company 43	1 10-
	quantity	1	100°C	19	81	19	20	20	20	20	Anti-Til	6
Chamber B	consumed food(unit)			4	4	5	9	9	-	t-	44	4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	consumed water(ml)	consumed marketall strategy water(ml)	And the state of t	24	59	36	56	39	47	51	And the state of t	Additional property of the legislature of the legis

Note:

-Each spider chambers provided 10 recently dead roaches as food for spiders on a daily basis -Socked sponges in the water, this helps spiders drinking water easier -Canceled bread and white granulated sugar (as food) for spiders on 12-Mar-2012

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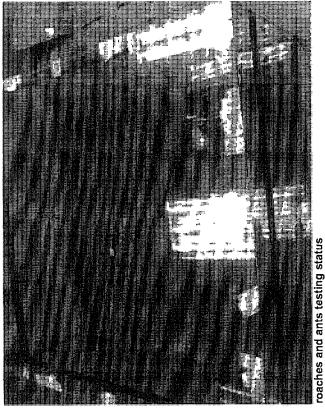
Test Result Data Measurement -- Roaches and Ants

ESTING	HOFF	+48Hrs	(+2 Day)	"Zi-Naf-12"	10:30 AM	White of the second	3	7/m #5	Comment of the second	And the position of the	O Commence of the Commence of	5 Section 2	gradestrand - PO 4
POST. TESTING	SWITCH OFF	+24Hrs	(+t Day)	C.20-Mar-12n-21-Naf-12	10:30 AM 10:30 AM	Contract Service Contra	Citizan of Timelestable arri.	Salatan S. Landenberry 3	Sanderson 8	A CALL COME LE DE LEGISTON AND LONG TO THE COME OF THE	CO.	Comment of the second	postel 2 consideration
		168Hrs	(7 Day)	19-Mar-12	10:30 AM	0	0	0	0	20	20	4	10
		144Hrs	(6 Day)	18-Mar-12	10:30 AM	0	0	0	2	20	20	4	13
ING		120Hrs	(5 Day)	17-Mar-12	10:30 AM	0	0	0	_	20	20	ဗ	6
DURING TESTING	SWITCH ON	96Hrs	(4 Day)	16-Mar-12	10:30 AM	0	0	0	2	20	20	2	5
DUR	S	72Hrs	(3 Day)	15-Mar-12	10;30 AM		+	0	က	19	19	5	14
		48Hrs	(2 Day)	14-Mar-12	10:30 AM	-	2	-	4	19	18	4	8
		24Hrs	(1 Day)	13-Mar-12	10:30 AM		0	0	+	19	20	2	5
Y TESTING	I OFF	-24Hrs	(4 Day)	12-Mar-12	10:30 AM	10 M	-10	0 0	3	10	10.00		A CONTRACTOR AND
PRELIMINAR	SWITCH SWITCH	-48Hrs	(-2 Day)	11 ² Mat-12	10:30 AM		Contained Total		7.		The state of the s	Mary Control of Contro	
p.,	ANTS		,	ate	ime	ANTS	ROACHES	consumed food(g)	consumed water(ml)	ANTS	ROACHES	consumed food(g)	consumed water(ml)
:	ROACHES & ANTS			Observe Date	Observe Time	viiantiik		consur	consum	quantity	familia h	consur	consum
	RO						Chamber	A (W/Pest	Repeller)			Criamber B	

Feed bread & granulated sugar (as food) for ants and roaches.
 Equal amount of food & water were prepared at each chamber daily.

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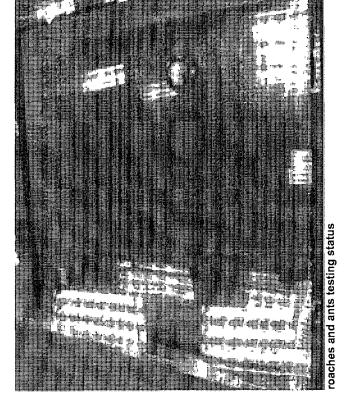


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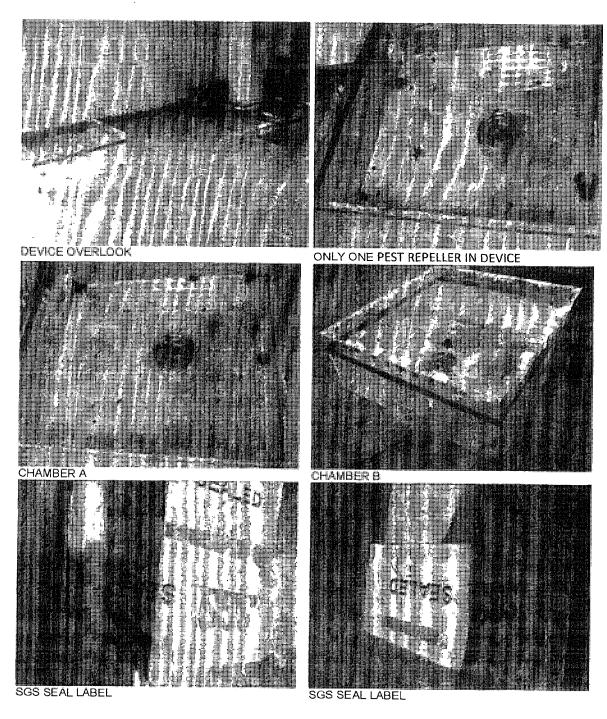
ROACHES FECAL PELLET RECORD REPORT

STAGI SWITCH O		DATE	SUBJECT	CHAMBER : A (W/ PEST PELLER)	CHAMBER : B
PRELIMINARY TESTING	医 4	1 Mar-12 12-Mar-12	roaches		
		13-Mar-12	roaches	Very little	More
		14-Mar-12	roaches	Very little	More
DURING	SWITCH	15-Mar-12	roaches	Very little	More
TESTING	ON	16-Mar-12	roaches	No	More
		17-Mar-12	roaches	No	More
		18-Маг-12	roaches	No	More
		19-Mar-12	roaches	No	More
POST	E E S S S	20-Mar-12 21-Mar-12	roaches	TOTAL STATE OF THE	Egual

Note:

- Only fecal pellet of roaches can be observed and witnessed, due to tiny and irregular sizes, fecal pellet
 were not easy to count, therefore quantity difference is described by three levels little, very little and more
- There were no fecal pellet found for spiders & ants.



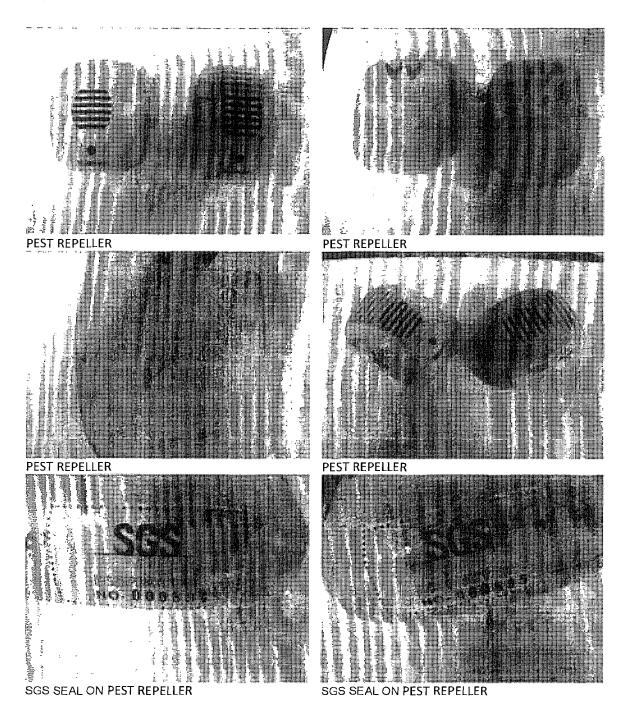


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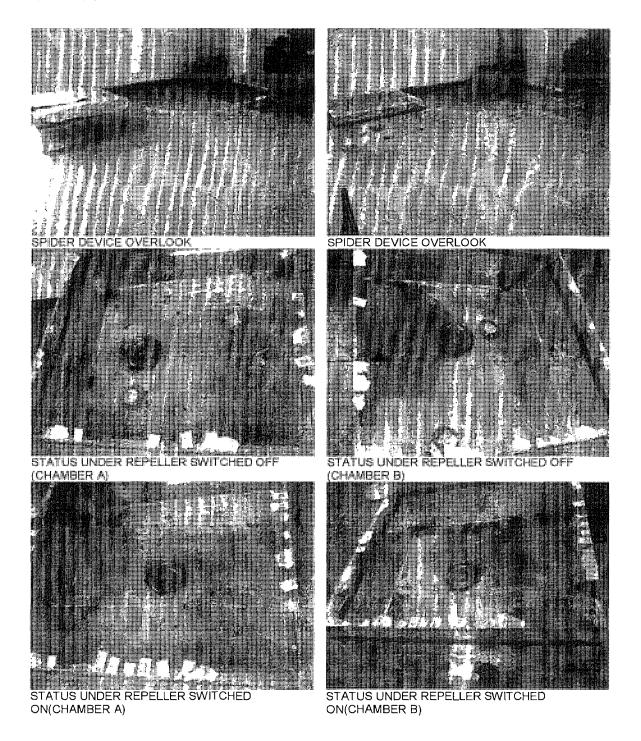


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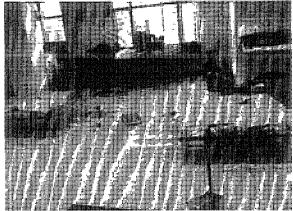
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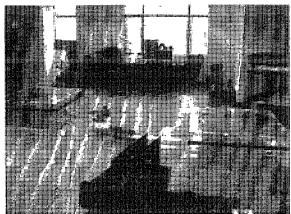


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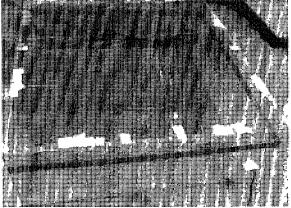
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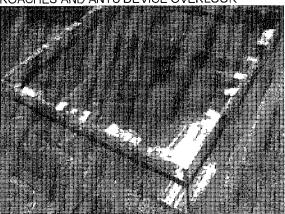




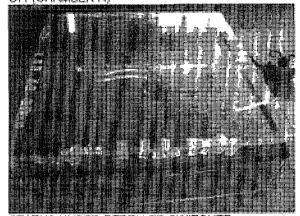
ROACHES AND ANTS DEVICE OVERLOOK



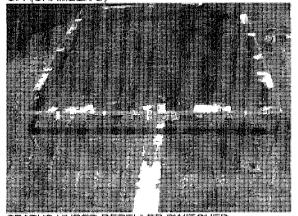
STATUS UNDER REPELLER SWITCHED OFF(CHAMBER A)



STATUS UNDER REPELLER SWITCHED OFF(CHAMBER B)



STATUS UNDER REPELLER SWITCHED ON(CHAMBER A)



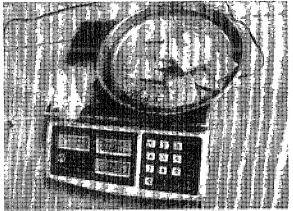
STATUS UNDER REPELLER SWITCHED ON(CHAMBER B)

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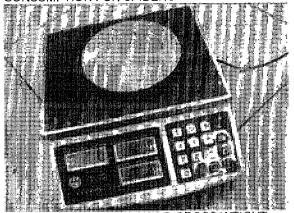
COS



SOAKED SPONGE TO MEASURE WATER CONSUMPTION FOR SPIDERS



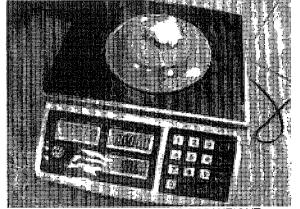
SOAKED SPONGE TO MEASURE WATER CONSUMPTION FOR SPIDERS



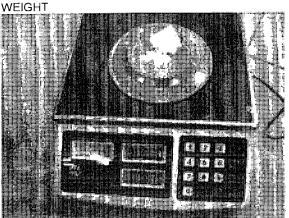
ROACHES AND ANTS WATER GROSS WEIGHT CHECK



ROACHES AND ANTS RENOVATE WATER



ROACHES AND ANTS FOOD GROSS WEIGHT CHECK



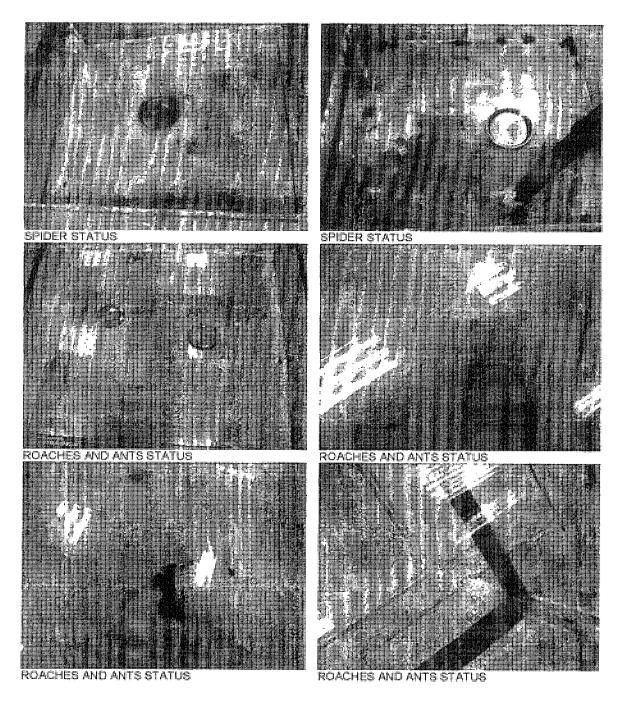
ROACHES AND ANTS RENOVATE FOOD WEIGHT

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SGS-F-OPS-05-01-CTS V06

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Case 1:15-cv-04804-WHP Document 135-20 Filed 03/09/18 Page 41 of 72



Note

In accordance with Client's instructions, the Company's involvement has been limited to witnessing/observing a third party's intervention(s) at the facilities where the intervention(s) took place. The Company's sole responsibility was to be present at the time of the third party's intervention(s) and to confirm and report the occurrence of the intervention(s). The Company is not responsible for methods applied, the qualifications, actions or omissions of the third party's personnel or the results or effectiveness of the intervention(s).

SGS Inspector.	ZHIYONG LIU	Factory Representative:	

End of Report

Page 19 of 19

SGS-F-OPS-05-01-CTS V06

2012 SPIDERS / ANTS / ROACHES TEST REPORT RESULT ANALYSIS

March 27, 2012

Construction of Test Chamber:

- The test was conducted in two plastic chambers. Each chamber was 4' (L) x 4' (W) x 1.5' (H).
- Pest Repeller was placed in chamber A. There was no pest repeller in Chamber B.
- In between, there was a 8.5 feet long plastic tunnel. The tunnel was "curved" and two chambers were designed in Hi-Lo level. The curved and Hi-Lo tunnel design was to further ensure ultrasonic sound wave would not enter from chamber A into chamber B since sound wave was directional.
- All edges were sealed securely with SGS unbreakable labels. Only SGS inspector could open the chambers to count ants / spiders / roaches quantities, weighted food and water and replaced new seals on a daily basis.
- Total 20 ants, 20 spiders and 20 roaches were used, and tested separately in different chambers.
- Released 50% of ants / spiders / roaches in chamber A, and another 50% of ants / spiders / roaches in Chamber B at the beginning of the test.
- There were 3 testing stages;
 - o Preliminary Testing: 2 days = 48 hours, pest repeller was OFF
 - o During Testing: 7 days = 168 hours, pest repeller was ON
 - o Post Testing: 2 days = 48 hours, pest repeller was OFF

Test Result Analysis (see page 8)

Spiders

- Preliminary Testing: 50% spiders stayed in Chamber A, 50% spiders stayed in Chamber B.
- During Testing: Day 1 ~ Day 3, 90% ~95% spiders stayed away from Chamber A, Day 4 ~ Day 7, 100% spiders stayed away from Chamber A. Pest repeller was switched ON in Chamber A during testing.
- Post Testing: 40% ~ 55% spiders returned to Chamber A after pest repeller was switched off.
- Water and food consumption was much LESS in Chamber A During Testing when pest repeller was switched on. The consumption quantities were closer in two chambers during Preliminary and Post Testing when pest repeller was switched off. To record water and food consumption result on a daily basis helped to understand spiders' eating behavior under the influence of ultrasonic sound.

Ants - Test Result Analysis (see page 10)

- Preliminary Testing: 50% ants stayed in Chamber A, 50% ants stayed in Chamber B.
- During Testing: Day 1 ~ Day 3, 95% ants stayed away from Chamber A, Day 4 ~ Day 7, 100% ants stayed away from Chamber A. Pest repeller was switched on in Chamber A during testing.
- Post Testing: 40% ~ 45% ants returned to Chamber A after pest repeller was switched off.
- Water and food consumption was much LESS in Chamber A During Testing when pest repeller was switched on. The consumption quantities were closer in two chambers during Preliminary and Post Testing when pest repeller was switched off. To record water and food consumption result on a daily basis helped to understand ant's eating behavior under the influence of ultrasonic sound.

BELL + HOWELL ULTRASONIC PEST REPELLER

EFFICACY TEST REPORT





TEST REPORT

Report Number: 140515021GZU-002 Issued Date: July 7, 2014

Applicant INTELLITEC INTERNATIONAL INC.

Address Unit201 Yuekai Commercial Building, NO28, Dongyuan

Road, Changping Town, Dongguan

Manufacturer : INTELLITEC INTERNATIONAL INC.

Address Unit201 Yuekai Commercial Building, NO28, Dongyuan

Road, Changping Town, Dongguan

Specimen Description

Product BELL + HOWELL Ultrasonic Pest Repeller

Style Number 50167

Sample Received Date Provided by applicant on May 16,2014

Quantity of Sample 1 piece

Test Content

Date Test Conducted From May 16, 2014 to May 27, 2014 Test Requested Witness for performance testing

- Ants, Spiders and Roaches

Test Standard/Method : According to client's requirement. Test Location Dongguan, Guangdong, China

Test Results Please see the following pages for details

Remark: When determining the test conclusion, the Measurement Uncertainty of test has been considered.

Prepared by:

Reviewed by:

Leo Lin

Engineer

Supervisor

Page 1 of 10

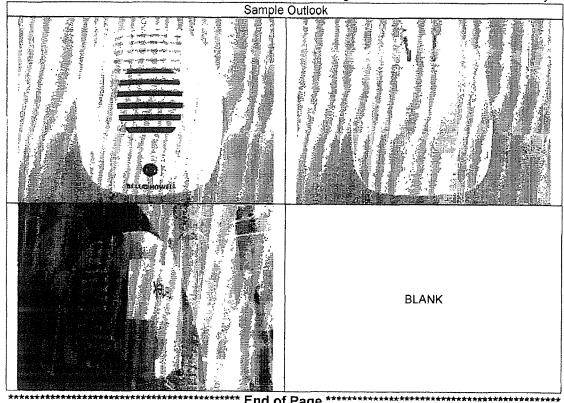
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140515021GZU-002

SAMPLE INFORMATION

One BELL + HOWELL Ultrasonic Pest Repeller were received in good condition and could work normally.



Page 2 of 10 Intertek Testing Services Shenzhen Lto. Guangzhou Branch Room 02: 1-8/F & Room 01: E101/E501//E601/E701/E801 No 7-2, Guang Dong Software Science Park, Caipin Road, Guangzhou Science City, GETDD Guangzhou Tel: (86-20) 8213 9686 Fax: (86-20) 3205 7538 Website www.intertek-etisemko.com

BHH,LLC 002554



140515021GZU-002

TEST OBJECT

Testing Ultrasonic Pest Repeller against Ants, Spiders and Roaches in laboratory environment, conducting observations in total 11 days period, including 2 days <u>Preliminary test</u>, 7 days <u>During test</u> and 2 days <u>Post test</u>. This is to measure the efficacy of high-frequency sound as a pest management tool. Both frequency and sound pressure (db) are important parameters.

TEST CONDITION

The test samples were stored in a locked cabinet at ambient temperature and humidity until use in testing. And during testing test chambers were stored at ambient temperature and humidity.

TEST PROCEDURE

1. Prepare test chambers, test pests and food/water

Test chambers consisted of two plastic chambers, chamber A (with ultrasonic pest repeller) and Chamber B (no ultrasonic pest repeller), each chamber is 4 feet (L) \times 4 feet (W) \times 1.5 feet (H). There is an 8.5 feet long plastic tunnel to connect the two chambers. See appendix III for reference.

Test chambers were sealed by Intertek sealed label. After daily check, replace with new sealed label.

Test pests consisted of 10 ants, 10 spiders and 10 roaches. All of them were adult and healthy.

Placed an equal amount of food and water in chamber A and chamber B. Used granulated sugar as food. Socked sponges in the water, this helps test pests drinking water easier. 20g food and 40g water were prepared in each chamber daily during the test.

2. Preliminary Testing

Test pests' activity was documented before and after device installation. To observe general activity, a Preliminary Testing was conducted before the actual test to ensure the test apparatus and the selected food functioned properly. The Ultrasonic Pest Repeller was turned OFF during preliminary testing. The release of test pests in Chamber A and Chamber B will be proportionate, with 50% of Ants, Spiders and Roaches distributed evenly in each chamber. The test pests were given 2 days (48 hours) to move freely around chamber A, Chamber B and the tunnel prior to the introduction of the Ultrasonic Pest Repeller.

The fecal pellet counts & Urine spots were cleaned daily (24 hours).

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GZPERF-BRAND V0 (August 16, 2012)

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140515021GZU-002

TEST PROCEDURE (continued)

3. Observation of Repellency (During Testing)

Turn On Ultrasonic Pest Repeller. Test pests were recorded at a 24 hours intervals for 7 days (or 168 hours). Any test pests that stay in the Chamber B (without ultrasonic pest repeller) were counted as repelled. Any test pests stay in Chamber A (with ultrasonic pest repeller) were counted as not repelled. The test pests were given 7 days (168 hours) to move freely around Chamber A and Chamber B and the tunnel when the Ultrasonic Pest Repeller is ON.

The fecal pellet counts & Urine spots were cleaned daily (24 hours).

4. Post Testing

To observe general activity, a post testing was conducted to ensure the test apparatus and the selected food functioned properly. Ultrasonic Pest Repeller was turned OFF during post testing. The test pests were given 2 days (48 hours) to move freely around chamber A, Chamber B and the tunnel.

The fecal pellet counts & Urine spots were cleaned daily (24 hours).

5. Testing record

During total of 11 days (264 hours) testing period, record below items at a 24hours interval.

- 1. The quantity of ants/spiders/roaches in each chamber. No change was made in the rats/mice population.
- 2. The consumption of food and water in each chamber.
- 3. The fecal pellet counts & Urine spots in each chamber.

Page 4 of 10

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Website www.intertek-etisemko.com



TEST RESULT

INTELLITEC INTERNATIONAL INC.

140515021GZU-002

27-May-14 11:00AM (+2 Day) 90 6.6 0.2 3.0 POST TESTING S S ო 4 / 9 SWITCH OFF 26-May-14 11:00AM +24Hrs (+1 Day) 0.5 3.6 4.6 0.4 m ဖ N ø 4 25-May-14 11:00AM 168Hrs (7 Day) 9.0 0.2 ن 9 3.6 9 9 0 0 0 24-May-14 11:00AM 144Hrs (6 Day) 9. 9.0 4.4 9 6 9 0 0 0 0 23-May-14 120Hrs 11:00AM (5 Day) 4.0 0 0 2.8 9 5 9,0 0 6 **DURING TESTING** SWITCH ON 22-May-14 11:00AM 96Hrs (4 Day) 0.2 1.6 9 0.8 3.4 0 - 6 O 21-May-14 11:00AM 72Hrs (3 Day) 0.4 5.2 N 0 0 ന 8 6 9 20-May-14 11:00AM 48Hrs (2 Day) 2.6 6 0.2 4.4 0 0 o 6 19-May-14 11:00AM 24Hrs (1 Day) 0.2 9.2 6.2 ო D. 4 0 S ထ 18-May-14 11:00AM (-1 Day) -24Hrs 0.1 8.0 9. 9.2 ဖ ဖ ო 4 4 PRELIMINARY SWITCH OFF TESTING 17-May-14 11:00AM -48Hrs (-2 Day) 90 3.2 0.2 4. 4 ဖ ო က Spider/Roaches/Ants Roaches Roaches Consumed food(g) Spider Consumed food(g) Spider Ants Ants Consumed Consumed water(ml) water(ml) Observe Time Observe Date Quantity Quantity Chamber (W/Pest Repeller) Chamber 00

Found 1 spider, 1 roach & 2 ants dead on 17-May-2014; 1 roach & 2 ants dead on 18-May-2014, 1 roach dead on 19-May-2014. Added new spiders, roaches & ants next day

Note:

intertek Testing Services Shenzher Ltd. Guargahou Branch Room 02, 1-8/F & Room 01, E101/E501//E601/E701/E801 No.7-2, Guarg Dong Software Science Park, Caipin Road. Guangahou Science City, GETDD Guangahou Telt. (86-20) 82-13 95-88 Fax. (85-20) 3205 7538 Page 5 of 10

Website: www.interfek-et/semkb.com GZPERF-BRAND VD (August 16, 2012)



140515021GZU-002

TEST RESULT (Continued)

For Roaches fecal pellet & urine spots

STAGE/ SWITCH ON/OFF		DATE	SUBJECT	CHAMBER A (W/ PEST PELLER)	CHAMBER B
PRELIMINARY TESTING	SWITCH OFF	17-May-14	ROACHES	Equal	Equal
		18-May-14	ROACHES	Equal	Equal
DURING TESTING	SWITCH ON	19-May-14	ROACHES	Equal	Equal
		20-May-14	ROACHES	Little	More
		21-May-14	ROACHES	Little	More
		22-May-14	ROACHES	Little	More
		23-May-14	ROACHES	Little	More
		24-May-14	ROACHES	Little	More
		25-May-14	ROACHES	Little	More
POST TESTING	SWITCH OFF	26-May-14	ROACHES	Little	More
		27-May-14	ROACHES	Equal	Equal

Note:

Fecal pellet and urine are observed and witnessed by naked eye. Due to tiny and irregular sizes, Ants, Spiders and Roaches' fecal pellet & urine spots are not easy to count, therefore quantity difference is described by three levels-little, very little and more.

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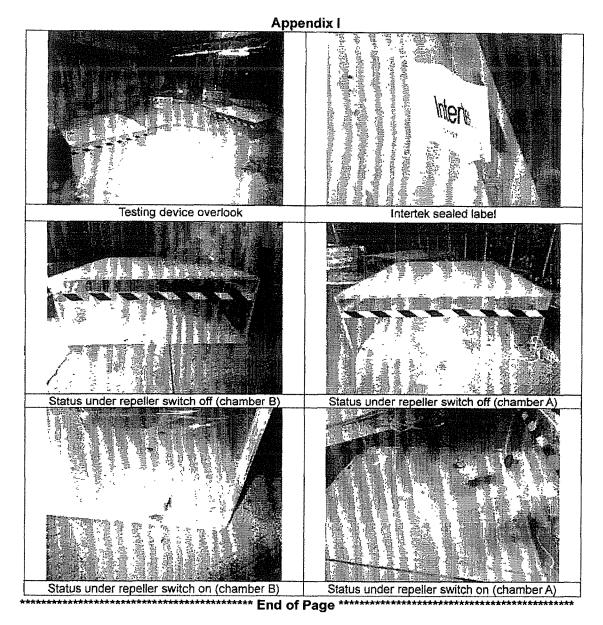
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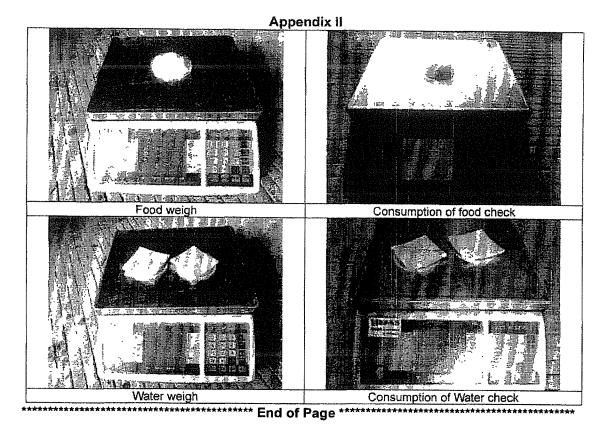


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BHH,LLC 002559



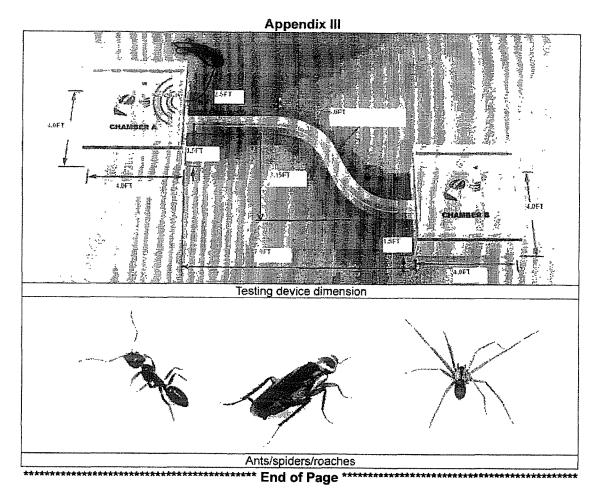
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140515021GZU-002



Page 9 of 10 Intertek Testing Services Shenzhen Ltd. Guangzhou Branch Room 62, 1-8/F & Room 01, E101/E501//E601/E701/E601 No 7-2, Guang Dong Software Science Park, Caipin Road, Guangzhou Science City, GETDD Guangzhou Tel. (86-20) 8213 9688 Fax: (86-20) 3205 7538

Website, www.intertek-etisemko.com



140515021GZU-002

REVISION SUMMARY

Date	Project Handler Reviewer	Page [Description of Change
2014-7-7		-	Initial release

Page 10 of 10

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Website: www.intertek-etisemko.com GZPERF-BRAND V0 (August 16, 2012)

BHH,LLC 002562

2015 RATS/ MICE TEST REPORT RESULT ANALYSIS

July 7, 2014

Construction of Test Chamber:

- The test was conducted in two plastic chambers. Each chamber was 4' (L) x 4' (W) x 2' (H).
- Ultrasonic Pest Repeller was placed in chamber A. There was no Ultrasonic pest repeller in Chamber B.
- In between, there was an 8.5 feet long plastic tunnel. The tunnel was "curved" and two chambers were designed in Hi-Lo level. The curved and Hi-Lo tunnel design was to further ensure ultrasonic sound wave would not enter from chamber A into chamber B since sound wave was directional.
- All edges were sealed securely with Intertek unbreakable labels. Only Intertek inspector could open the chambers to rats/ mice quantities, weighted food and water and replaced new seals on a daily basis.
- Total 10 rates and 10 mice were used, and tested separately in different chambers.
- Released 50% of rats / mice in chamber A, and another 50% of rats / mice in Chamber B at the beginning of the test.
- There were 3 testing stages;
 - Preliminary Testing: 2 days = 48 hours, pest repeller was OFF
 - During Testing: 7 days = 168 hours, pest repeller was ON
 - Post Testing: 2 days = 48 hours, pest repeller was OFF

Test Result Analysis

Rats (see page 5)

- Preliminary Testing: 40%~60% rates stayed in Chamber A, 60%~40% rates stayed in Chamber B.
- During Testing: Day 1 ~ Day 3, 60%~90% rats stayed away from Chamber A, Day 4 ~ Day 7, 100% rates stayed away from Chamber A. Pest repeller was switched ON in Chamber A during testing.
- Post Testing: 30% ~ 60% rates returned to Chamber A after pest repeller was switched off.
- Water and food consumption was much LESS in Chamber A During Testing when pest repeller was switched on.
 The consumption quantities were closer in two chambers during Preliminary and Post Testing when pest repeller was switched off. To record water and food consumption result on a daily basis helped to understand rates' eating behavior under the influence of ultrasonic sound.

Mice – (see page 6)

- Preliminary Testing: 40%~50% Mice stayed in Chamber A, 60%~50% Mice stayed in Chamber B.
- During Testing: Day 1 ~ Day 3, 80% ~ 90% mice stayed away from Chamber A, Day 4 ~ Day 7, 90% ~ 100% mice stayed away from Chamber A. Pest repeller was switched on in Chamber A during testing.
- Post Testing: 40% ~ 60% Mice returned to Chamber A after pest repeller was switched off.
- Water and food consumption was much LESS in Chamber A During Testing when pest repeller was switched on. The consumption quantities were closer in two chambers during Preliminary and Post Testing when pest repeller was switched off. To record water and food consumption result on a daily basis helped to understand ant's eating behavior under the influence of ultrasonic sound.

Fecal Pellets Count (see page 7)

- Lab technician traced and recorded pest fecal pellets on a daily basis, this helped to further understand pest's activities and behaviors under the influence of ultrasonic sound.
- Lab technician could only trace fecal pellets and urine spot was observed:
 - When pest repeller was switched on During Testing; fecal pellets appeared to be much LESS quantities in Chamber A.
 - When pest repeller was switched off during Preliminary and Post Testing, fecal pellet quantities appeared to be more EVEN in two chambers.
- There was neither fecal pellet nor urine spot was found from rats and mice during the entire testing period.



TEST REPORT

Report Number: 140515021GZU-001 Issued Date: July 7, 2014

Applicant INTELLITEC INTERNATIONAL INC.

Address Unit 201 Yuekai Commercial Building, NO28, Dongyuan

Road, Changping Town, Dongguan

Manufacturer : INTELLITEC INTERNATIONAL INC.

Address Unit 201 Yuekai Commercial Building, NO28, Dongyuan

Road, Changping Town, Dongguan

Specimen Description

Product BELL + HOWELL Ultrasonic Pest Repeller

Style Number 50167

Sample Received Date Provided by applicant on May 16,2014

Quantity of Sample 2 pieces.

Test Content

Date Test Conducted From May 16, 2014 to May 27, 2014

Test Requested Witness for performance testing - Rats and Mice

Test Standard/Method According to client's requirements. Test Location Dongguan, Guangdong, China

Test Results See the following pages for details.

Remark: When determining the test conclusion, the Measurement Uncertainty of test has been considered.

Reviewed by:

Supervisor

Prepared by:

Leo Lin

Engineer

Page 1 of 14

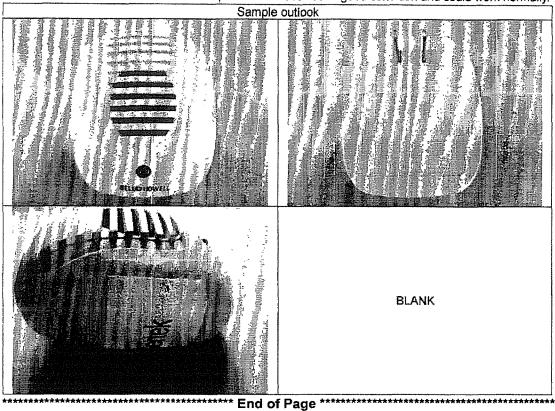
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140515021GZU-001

SAMPLE INFORMATION

Two BELL + HOWELL Ultrasonic Pest Repeller were received in good condition and could work normally.



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Website: www.interiek-etisentko.com

GZPERF-BRAND V0 (August 16, 2012)



140515021GZU-001

TEST OBJECT

Test Ultrasonic Pest Repeller against rats and mice in laboratory environment, conducting observations in total 11 days period, including 2 days <u>Preliminary test</u>, 7 days <u>During test</u> and 2 days <u>Post test</u>. This is to measure the efficacy of high-frequency sound as a pest management tool.

Both frequency and sound pressure (db) are important parameters.

TEST CONDITION

The test samples were stored in a locked cabinet at ambient temperature and humidity until use in testing. And during testing test chambers were stored at ambient temperature and humidity.

TEST PROCEDURE

1. Prepare test Chamber, rats/mice and food/water

Test chambers of rat consisted of two plastic chambers, chamber A (with ultrasonic pest repeller) and Chamber B (no ultrasonic pest repeller), each chamber is 4 feet (L) x 4 feet (W) x 2 feet (H). There is an 8.5 feet long plastic tunnel to connect these two chambers. Test chambers of mice are same except for the height of chamber is 1.5 feet. See appendix III for reference.

Test chambers were sealed by Intertek sealed label. After daily check, replace with new sealed label.

Prepared 10 rats and 10 mice. All of them were adult and healthy. As rats are larger and far more aggressive than mice, they can, and often do, kill mice. Therefore the testing of rats and mice was conducted separately.

Placed an equal amount of food and water in chamber A and chamber B. Used the mixture of rice, corn flour and soybean particle as food for rats and mice and used tap water. During the test, 500g food and 400g water for rats, 100g food and 100g water for mice were prepared in each chamber daily.

2. Preliminary Testing

Rats and mice's activity was documented before and after device installation. To observe general activity, conducted a Preliminary Testing before the actual test to ensure the test apparatus and the selected food functioned properly. The Ultrasonic Pest Repeller was turned OFF during preliminary testing. The release of rats and mice in Chamber A and Chamber B was proportionate, with 50% of rats and mice distributed evenly in each chamber. Rats and mice were given 2 days (48 hours) to move freely around chamber A, Chamber B and the tunnel prior to the introduction of the Ultrasonic Pest Repeller.

The fecal pellet counts & Urine spots were cl	eaned daily (24	hours).
**************************************	End of Page	**************************************

Page 3 of 14

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Science City, GETDD Guangzhou Tel. (86-20) 8213 9688 Fax: (86-20) 3205 7538

Website: www.intertek-etiseniko.com



140515021GZU-001

TEST PROCEDURE (continued)

3. Observation of Repellency (During Testing)

Turn On Ultrasonic Pest Repeller. Rats and mice were recorded at 24 hour intervals for 7 days (or 168 hours). Any rats and mice that stay in the Chamber B (without ultrasonic pest repeller) were counted as repelled. Any rats and mice stay in Chamber A (with ultrasonic pest repeller) were counted as not repelled. Rats and mice were given 7 days (168 hours) to move freely around Chamber A and Chamber B and the tunnel when the Ultrasonic Pest Repeller is ON.

The fecal pellet counts & Urine spots were cleaned daily (24 hours).

4. Post Testing

To observe general activity, a post testing was conducted to ensure the test apparatus and the selected food functioned properly. Ultrasonic Pest Repeller was turned OFF during post testing. Rats and mice were given 2 days (48 hours) to move freely around chamber A, Chamber B and the tunnel.

The fecal pellet counts & Urine spots were cleaned daily (24 hours).

5. Testing record

During total of 11 days (264 hours) testing period, record below items at a 24hours interval.

- 1. The quantity of rats/mice in each chamber. No change was made in the rats/mice population.
- 2. The consumption of food and water in each chamber.
- 3. The fecal pellet counts & Urine spots in each chamber.

Page 4 of 14

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TEST RESULT

INTERNATIONAL INC.

140515021GZU-001

27-May-14 (+2 Day) 10:30AM +48Hrs 54.0 24.0 23.6 44.0 POST TESTING 4 9 SWITCH OFF 26-May-14 (+1 Day) 10:30AM +24Hrs 58.2 28.0 17.6 41.0 7 ო 25-May-14 10:30AM (7 Day) 168Hrs 128.4 54.6 70.0 41.6 9 0 24-May-14 10:30AM (6 Day) 150.6 144Hrs 718 43.8 83.4 5 0 23-May-14 10:30AM 120Hrs (5 Day) 127.6 31.8 98.0 76.4 9 0 **DURING TESTING** SWITCH ON 22-May-14 10:30AM (4 Day) 141.2 96Hrs 80.2 41.0 24.4 9 0 21-May-14 10:30AM (3 Day) 149.6 72Hrs 39.0 46.8 88.4 တ 20-May-14 10:30AM (2 Day) 48Hrs 181.6 82.8 26.2 34.0 0 œ 19-May-14 10:30AM (1 Day) 153.8 24Hrs 1240 42.2 55.2 4 ø 18-May-14 (-1 Day) 10:30AM -24Hrs 173.8 161.2 61.8 54.2 ဖ 4 PRELIMINARY SWITCH OFF TESTING 17-May-14 10:30AM (-2 Day) 48Hrs 225.8 217.8 59.0 56.4 4 ဖ Consumed water(ml) Consumed water(ml) Consumed food(g) Consumed Quantity Quantity food(g) Observe Date Observe Time RATS Chamber B A (W/Pest Repeller) Chamber

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TEST RESULT (Continued)

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27-May-14 (+2 Day) 10:30AM +48Hrs 15.2 14.6 18.2 13.2 POST TESTING 4 9 SWITCH OFF 26-May-14 (+1 Day) 10:30AM +24Hrs 11.4 18.2 19.4 19.4 9 4 25-May-14 10:30AM 168Hrs (7 Day) 24.2 32.6 10.6 15.8 0 5 24-May-14 144Hrs 10:30AM (6 Day) 29.8 1.8 19.8 6.4 0 10 23-May-14 10:30AM 120Hrs (5 Day) 28.4 12.2 10.8 22.4 0 9 **DURING TESTING** SWITCH ON 22-May-14 10:30AM 96Hrs (4 Day) 17.2 14.2 26.0 5.6 o 21-May-14 10:30AM (3 Day) 72Hrs 29.6 15.6 12.8 9.0 6 20-May-14 10:30AM (2 Day) 48Hrs 15.8 22.8 5 8.4 0 9 19-May-14 (1 Day) 10:30AM 24Hrs 17.4 11.8 22.8 23.6 æ 18-May-14 (-1 Day) 10:30AM -24Hrs 32.6 35.8 26.2 40.0 PRELIMINARY TESTING S 2 SWITCH OFF 17-May-14 (-2 Day) 10:30AM 32.8 18,2 15.8 20.4 4 9 Consumed food(g) Consumed water(mi) Consumed Consumed water(ml) Quantity Quantity food(g) Observe Date Observe Time MICE Chamber B Chamber A (W/Pest Repeller)

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TEST RESULT (Continued)

For Rats/Mice fecal pellet & urine spots

STAGE/ SWITCH ON/OFF		DATE	SUBJECT	CHAMBER A (W/ PEST PELLER)	CHAMBER B
PRELIMINARY TESTING	SWITCH OFF	17-May-14	RATS	Equal	Equal
		17-Way-14	MICE	Equal	Equal
		18-May-14	RATS	Equal	Equal
			MICE	Equal	Equal
	SWITCH ON	19-May-14	RATS	Equal	Equal
			MICE	Equal	Equal
		20-May-14	RATS	Little	More
			MICE	Little	More
		21-May-14	RATS	Little	More
			MICE	Little	More
DURING		22-May-14	RATS	Little	More
TESTING			MICE	Little	More
		23-May-14	RATS	Little	More
			MICE	Little	More
		24-May-14	RATS	Little	More
			MICE	Little	More
		25-May-14	RATS	Little	More
			MICE	Little	Моге
POST	SWITCH OFF	26-May-14	RATS	Equal	Equal
			MICE	More	Little
TESTING		27-May-14	RATS	Equal	Equal
			MICE	Equal	Equal

Note:

Fecal pellet and urine are observed and witnessed by naked eye. Due to tiny and irregular sizes, rats and mice's fecal pellet & urine spots are not easy to count, therefore quantity difference is described by three levels-little, very little and more.

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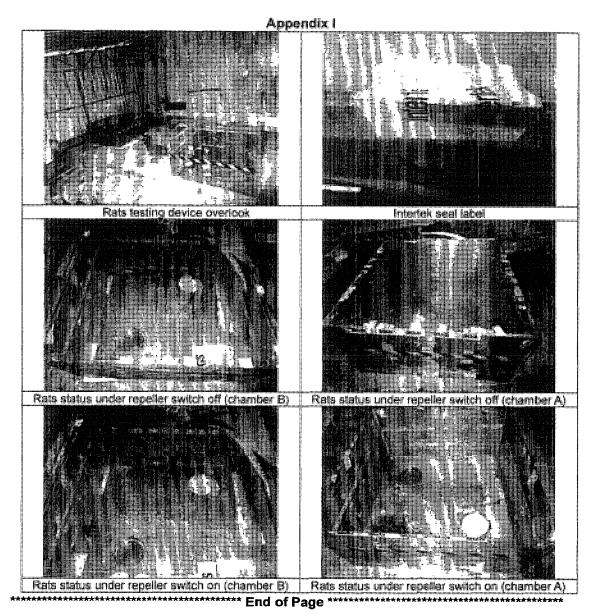
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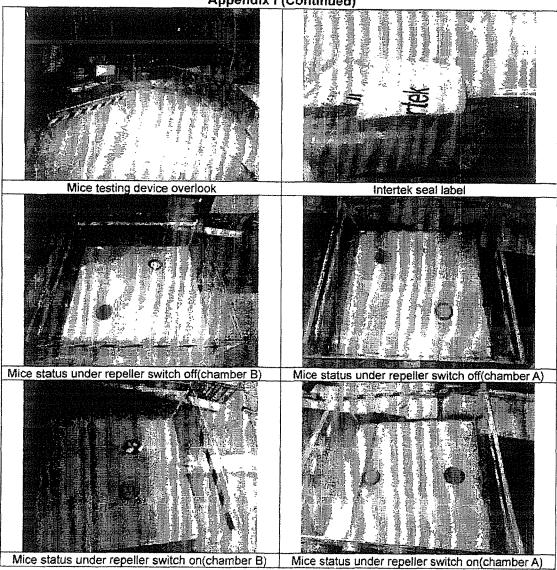


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Appendix I (Continued)

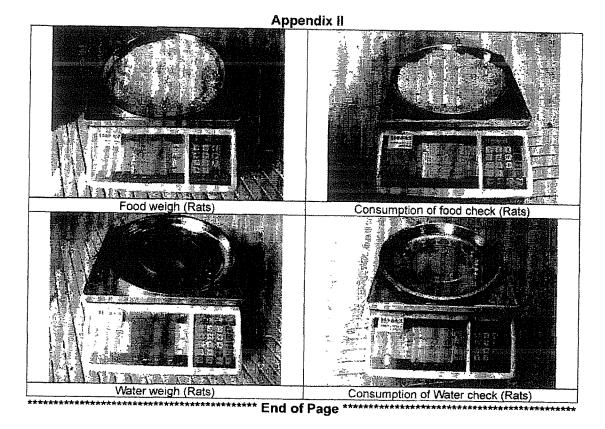


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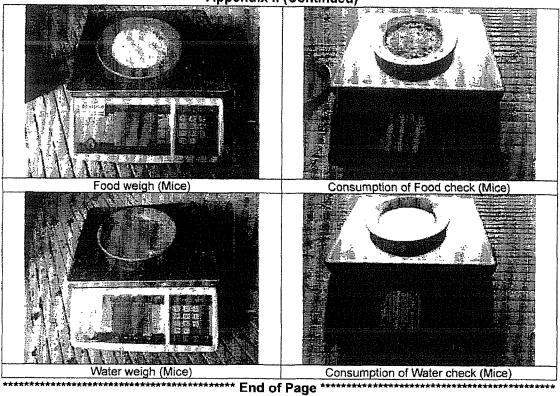
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Appendix II (Continued)

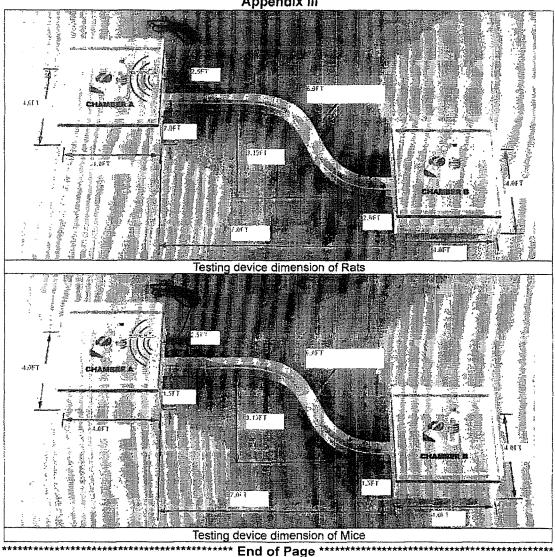


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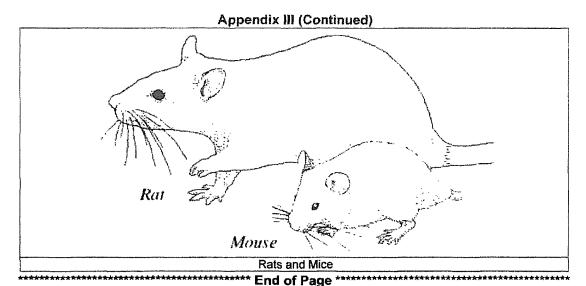




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REVISION SUMMARY

Date	Project Handler Reviewer	Page	Description of Change
2014-7-7			Initial release

intertek Testing Services Sherizhen Ltd. Guangzhou Branch.
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2014 SPIDERS / ANTS / ROACHES TEST REPORT RESULT ANALYSIS

July 7, 2014

Construction of Test Chamber:

- The test was conducted in two plastic chambers. Each chamber was 4' (L) x 4' (W) x 1.5' (H).
- Pest Repeller was placed in chamber A. There was no pest repeller in Chamber B.
- In between, there was a 8.5 feet long plastic tunnel. The tunnel was "curved" and two chambers were designed in Hi-Lo level. The curved and Hi-Lo tunnel design was to further ensure ultrasonic sound wave would not enter from chamber A into chamber B since sound wave was directional.
- All edges were sealed securely with Intertek unbreakable labels. Only Intertek inspector could open the chambers to count ants / spiders / roaches quantities, weighted food and water and replaced new seals on a daily basis.
- Total 10 ants, 10 spiders and 10 roaches were used, and tested separately in different chambers.
- Released 50% of ants / spiders / roaches in chamber A, and another 50% of ants / spiders / roaches in Chamber B at the beginning of the test.
- There were 3 testing stages;
 - Preliminary Testing: 2 days = 48 hours, pest repeller was OFF
 - During Testing: 7 days = 168 hours, pest repeller was ON
 - Post Testing: 2 days = 48 hours, pest repeller was OFF

Test Result Analysis

Spiders (see page 5)

- Preliminary Testing: 30% spiders stayed in Chamber A, 70% spiders stayed in Chamber B.
- During Testing: Day 1 ~ Day 3, 70%~80% spiders stayed away from Chamber A, Day 4 ~ Day 7, 90%~100% spiders stayed away from Chamber A. Pest repeller was switched ON in Chamber A during testing.
- Post Testing: 30% ~ 40% spiders returned to Chamber A after pest repeller was switched off.
- Water and food consumption was much LESS in Chamber A During Testing when pest repeller was switched on.
 The consumption quantities were closer in two chambers during Preliminary and Post Testing when pest repeller was switched off. To record water and food consumption result on a daily basis helped to understand spiders' eating behavior under the influence of ultrasonic sound.

Roaches - Test Result Analysis (see page 5)

- Preliminary Testing: 60%~70% ants stayed in Chamber A, 40%~30% ants stayed in Chamber B.
- During Testing: Day 1 ~ Day 3, 50 %~100% roaches stayed away from Chamber A, Day 4 ~ Day 7, 100% roaches stayed away from Chamber A. Pest repeller was switched on in Chamber A during testing.
- Post Testing: 30%~40% roaches returned to Chamber A after pest repeller was switched off.
- Water and food consumption was much LESS in Chamber A During Testing when pest repeller was switched on.
 The consumption quantities were closer in two chambers during Preliminary and Post Testing when pest repeller was switched off. To record water and food consumption result on a daily basis helped to understand roaches' eating behavior under the influence of ultrasonic sound.

Ants – Test Result Analysis (see page 5)

- Preliminary Testing: 40%-60% ants stayed in Chamber A, 60%-40% ants stayed in Chamber B.
- During Testing: Day 1 ~ Day 3, 60%~100% ants stayed away from Chamber A, Day 4 ~ Day 7, 100% ants stayed away from Chamber A. Pest repeller was switched on in Chamber A during testing.
- Post Testing: $60\% \sim 70\%$ ants returned to Chamber A after pest repeller was switched off.
- Water and food consumption was much LESS in Chamber A During Testing when pest repeller was switched on.
 The consumption quantities were closer in two chambers during Preliminary and Post Testing when pest repeller was switched off. To record water and food consumption result on a daily basis helped to understand ant's eating behavior under the influence of ultrasonic sound.

Fecal Pellets Count (see page 12)

- Lab technician traced and recorded pest fecal pellets on a daily basis, this helped to further understand pest's activities and behaviors under the influence of ultrasonic sound.
- Lab technician could only trace fecal pellets from roaches, but no urine spot was observed:
 - When pest repeller was switched on During Testing; fecal pellets appeared to be much LESS quantities in Chamber A.
 - When pest repeller was switched off during Preliminary and Post Testing, fecal pellet quantities appeared to be more EVEN in two chambers.
- There was neither feeal pellet nor urine spot was found from spiders and ants during the entire testing period.

Ants - Test Result Analysis (see page 5)

- Preliminary Testing: 40%-60% ants stayed in Chamber A, 60%-40% ants stayed in Chamber B.
- During Testing: Day 1 ~ Day 3, 60%~100% ants stayed away from Chamber A, Day 4 ~ Day 7, 100% ants stayed away from Chamber A.
 Pest repeller was switched on in Chamber A during testing.
- Post Testing: 60% ~ 70% ants returned to Chamber A after pest repeller was switched off.
- Water and food consumption was much LESS in Chamber A During Testing when pest repeller was switched on.
 The consumption quantities were closer in two chambers during Preliminary and Post Testing when pest repeller was switched off. To record water and food consumption result on a daily basis helped to understand ant's eating behavior under the influence of ultrasonic sound.

Fecal Pellets Count (see page 12)

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